

CLAIMS

1. A urinary collection system comprising:

a urinal with a first liquid storage reservoir and an inlet opening;

a pickup with an inlet portion and an outlet portion mounted to the

5 urinal having the outlet portion positioned normally above the inlet portion, the inlet portion being positioned in the first liquid storage reservoir, the pickup forming a fluid flow path between the first liquid storage reservoir and the outlet portion;

a collection container having a second liquid storage reservoir;

a first conduit connecting the first storage reservoir in flow

10 communication with the second liquid storage reservoir;

a pump device comprising a pump and a drive device operable to drive the pump, the pump having an inlet and an outlet;

a second conduit connecting the second liquid reservoir to the pump inlet, the pump being operable to apply a reduced pressure to the first and second

15 conduit, the pickup and the second reservoir to induce flow of fluid from the first reservoir into the second reservoir; and

a control device operably associated with the pump device for selectively activating and deactivating the drive device.

20 2. The urinary collection system as set forth in Claim 1, wherein the control device including a wireless transmitter and a receiver, said receiver being operably connected to said drive device.

3. The urinary collection system as set forth in Claim 1, wherein the control device including a timer operable after a predetermined time to deactivate said drive device.

5 4. The urinary collection system as set forth in Claim 1, wherein the drive device includes an electric motor.

5. The urinary collection system as set forth in Claim 1, wherein the collection container includes an inlet and an outlet with a portion of the container inlet
10 directed downward to prevent liquid entering the second reservoir from entering the container outlet.

6. The urinary collection system as set forth in Claim 1, wherein the collection container includes a sensor that provides input as to when the collection
15 container requires emptying.

7. The urinary collection system as set forth in Claim 1, wherein the collection container includes a closable opening with a removable lid.

20 8. The urinary collection system as set forth in Claim 1, wherein the collection container includes a handle.

9. The urinary collection system as set forth in Claim 1, wherein the urinal includes a handle.

10. The urinary collection system as set forth in Claim 1, wherein the
urinal includes a closable lid.

5 11. The urinary collection system as set forth in Claim 10, wherein the
closable lid includes a plurality of vent holes.

12. The urinary collection system as set forth in Claim 1, wherein the
pickup includes a connector secured to the outside of the urinal, wherein the
10 connector is connected in liquid relationship to a siphon tube that is adjacent to a
bottom portion of the reservoir for the urinal wherein the reservoir includes an
indented, well portion.

13. The urinary collection system as set forth in Claim 12, wherein the
15 connector includes components selected from the group consisting of an ell, a hose
barb and a quick disconnect-type connector.

14. The urinary collection system as set forth in Claim 1 and further
including a retainer operatively associated with the urinal for selectively fixing the
20 urinal in position relative to a user.

15. The urinary collection system as set forth in claim 14, wherein the
retainer includes a weight and a strip of VELCRO®.

16. The urinary collection system as set forth in Claim 13, wherein the
retainer includes a hold down including a generally u-shaped member forming a
channel for receiving the urinal therein and a hold down member connected to the u-
shaped member and projecting outwardly therefrom and adapted to be placed under a
5 user's leg.

17. The urinary collection system as set forth in Claim 1, wherein the
pump device includes a housing having a first end cap and a second end cap.

10 18. The urinary collection system as set forth in Claim 17, wherein the
housing is cylindrical and is supported by a plurality of arcuate feet.

19. The urinary collection system as set forth in Claim 17, wherein the
pump device includes a light indicator and a power overload protector.

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20. The urinary collection system as set forth in Claim 17, wherein the
pump device includes an exhaust.

21. The urinary collection system as set forth in Claim 1, further
20 comprising an external male catheter having an outlet tube, wherein the outlet tube of
the external male catheter is in flow communication with the urinal.

22. The urinary collection system as set forth in Claim 21, further
comprising an attachment device for securing the outlet tube for the external male

catheter to the urinal so that the external male catheter is in flow communication with the urinal.

23. A urinary collection system comprising:

- 5 an external male catheter with an outlet tube;
- a collection container having a second liquid storage reservoir;
- a first conduit connecting the first storage reservoir in flow communication with the outlet tube;
- a pump device comprising a pump and a drive device operable to drive
- 10 the pump, the pump having an inlet and an outlet;
- a second conduit connecting the second liquid reservoir to the pump inlet, the pump being operable to apply a reduced pressure to the first and second conduit, the pickup and the second reservoir to induce flow of fluid from the first reservoir into the second reservoir; and
- 15 a control device operably associated with the pump device for selectively activating and deactivating the drive device.

24. A method of collecting urine, the method comprising:

- discharging liquid into a first liquid storage reservoir and an inlet
- 20 opening so that the urine passes into a pickup with an inlet portion and an outlet portion mounted to the urinal having the outlet portion positioned normally above the inlet portion, the inlet portion being positioned in the first liquid storage reservoir, the pickup forming a flow path between the first liquid storage reservoir and the outlet portion;

allowing the liquid to travel through a first conduit connecting the first storage reservoir in flow communication with collection container having a second liquid storage reservoir;

utilizing a pump device comprising a pump and a drive device

5 operable to drive the pump, the pump having an inlet and an outlet to induce flow of gas from the first reservoir into the second reservoir with a second conduit connecting the second liquid reservoir to the pump inlet, the pump being operable to apply a reduced pressure to the first and second conduit, the pickup and the second reservoir; and

10 operating a control device operably associated with the pump device for selectively activating and deactivating the drive device.

25. The method as set forth in Claim 24, further including utilizing a timer to deactivate the drive device if the drive device is not deactivated otherwise prior to a
15 preset time interval of running.